

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims:

Please amend the claims as follows:

1. (Currently Amended) For an electronic system for creating and editing an electronic document, a method for semantically labeling a string of text in the electronic document created in an application program module, the method comprising ~~the steps of:~~

automatically receiving the string of text in a recognizer dynamic-link library after the entire string of text has been entered in the electronic document, wherein receiving the string of text comprises maintaining a job queue, the job queue storing the string of text before transmitting the string of text to a plurality of recognizer plug-ins;

determining if the string of text has been edited;

when the string of text has been edited, deleting the edit string of text from the queue;

when the string of text has not been edited, transmitting the string of text, from the job queue, to the plurality of recognizer plug-ins during an idle time;

in each of the plurality of recognizer plug-ins, annotating the string of text to determine a label;

transmitting the labels from the recognizer plug-ins to the recognizer dynamic-link library;

compiling the labels into a plurality of semantic categories at the recognizer dynamic-link library; ~~and~~

transmitting the semantic categories to the application program module such that each label is associated with the string of text; and
embedding the plurality of semantic categories in the electronic document.

2. (Currently Amended) The method of Claim 1 further comprising ~~the step~~ of synchronizing the labels received from the recognizer plug-ins before transmitting the labels to the application program module.

3. (Currently Amended) The method of Claim 1 further comprising ~~the steps~~ of:

receiving the labels in an action dynamic link library;
transmitting the labels to a plurality of action plug-ins; and
determining, in the action plug-ins, a plurality of actions based on each of the labels and displaying a plurality of actions received from the plurality of action plug-ins.

4.-6. (Cancelled)

7. (Currently Amended) The method of Claim 1 further comprising ~~the steps~~ of:

causing the application program module to fire an event within an object model of the application program module;

causing a piece of code associated with the event to be executed when at least one of the labels is determined.

8. (Currently Amended) The method of Claim 1 further comprising ~~the steps of:~~

before the step of receiving the string of text in a recognizer dynamic-link library, determining a language of the string of text and if the language is not recognized by the recognizer dynamic-link library, then ending the method.

9. (Cancelled)

10. (Currently Amended) A method for labeling a string of text in an electronic document as the electronic document is created in an application program module, the method comprising ~~the steps of:~~

as the string of text is entered into the electronic document, automatically receiving the string of text in a recognizer dynamic link library during an idle time after the string of text has been entered in the electronic document and determining whether the string of text matches one of a plurality of stored strings according to semantic categories, wherein receiving the string of text comprises:

maintaining a job queue, the job queue storing the string of text before transmitting the string of text to a plurality of recognizer plug-ins, and determining if the string of text has been edited;

when the string of text has been edited, deleting the edit string of text from the queue;

when the string of text has not been edited, transmitting the string of text, from the job queue, to the plurality of recognizer plug-ins during an idle time; if so, then determining a label associated with the matched stored string; and associating the label with the string of text; ~~and~~ transmitting the semantic categories to the application program module; and embedding the semantic categories in the electronic document.

11. (Currently Amended) The method recited in Claim 10 further comprising ~~the step of~~ determining a set of actions associated with the label.

12. (Original) The method recited in Claim 11 further comprising displaying an indication indicating that the label has been found for the string of text.

13. (Currently Amended) The method recited in Claim 12 further comprising ~~the steps of:~~

determining that a user has selected the string of text; and
in response, displaying the plurality of actions to the user.

14. (Currently Amended) The method recited in Claim 13 further comprising ~~the steps of:~~

receiving an indication that one of the plurality of actions has been selected; and
in response to receiving an indication that one of the plurality of actions has been selected, then causing the selected one of the plurality of actions to execute.

15. (Cancelled)

16. (Previously Presented) The method recited in Claim 14 wherein causing the selected one of the plurality of actions to execute comprises determining whether an action plug-in dynamic link library assigned to the action is available; and

if so, then receiving instructions from the action dynamic link library assigned to the selected action.

17. (Currently Amended) The method recited in Claim 16 further comprising ~~the steps of:~~

if an action plug-in dynamic link library is not available, then using a Uniform Resource Locator assigned to the action to navigate to a Web site and download the action plug-in dynamic link library.

18. (Currently Amended) The method recited in Claim 17 further comprising ~~the step of~~ determining metadata associated with the string of text.

19. (Currently Amended) A system for labeling a string in an electronic document as the string is entered into the electronic document, the system comprising:

- an application program module for creating the electronic document;
- a recognizer dynamic link library connected to the application program module, wherein the recognizer dynamic link library automatically receives the string during an idle time after the string has been entered in the electronic document;
- at least one recognizer plug-in connected to the recognizer dynamic link library, wherein the at least one recognizer plug-in receives the string, annotates the string to determine a label according to semantic categories embedded in the electronic document, and associates the label with the string, wherein the at least one recognizer plug-in receiving the string comprises:

- maintaining a job queue, the job queue storing the string of text before transmitting the string of text to a plurality of recognizer plug-ins;
- determining if the string of text has been edited;
- when the string of text has been edited, deleting the edit string of text from the queue;
- when the string of text has not been edited, transmitting the string of text, from the job queue, to the plurality of recognizer plug-ins during an idle time; and
- an action dynamic link library connected to the application program module.

20. (Cancelled)

21. (Previously Presented) The system of Claim 19 further comprising at least one action plug-in connected to the action dynamic link library.

22.-23. (Cancelled)

24. (Currently Amended) The method of Claim 1 wherein ~~the step of~~ annotating the string of text to determine a label comprises comparing the string of text with a plurality of stored strings to determine a match.

25. (Currently Amended) The system of Claim 19 wherein the at least one recognizer plug-in compares the string to a plurality of stored strings to determine whether the string matches any of the stored strings according to the semantic categories embedded in the electronic document.

26. (Previously Presented) The system of Claim 25 wherein the label is associated with the matched stored string.

27. (Currently Amended) For an electronic system for creating and editing an electronic document, a computer-readable medium with instructions stored thereon for semantically labeling a string of text in the electronic document created in an application program module, the instructions comprising:

automatically receiving the string of text in a recognizer dynamic-link library after the entire string of text has been entered in the electronic document, wherein receiving the string of text comprises maintaining a job queue, the job queue storing the string of text before transmitting the string of text to a plurality of recognizer plug-ins;

determining if the string of text has been edited;

when the string of text has been edited, deleting the edit string of text from the queue;

when the string of text has not been edited, transmitting the string of text, from the job queue, to the plurality of recognizer plug-ins during an idle time;

in each of the plurality of recognizer plug-ins, annotating the string of text to determine a label according to semantic categories embedded in the electronic document;

associating each label with the string of text;

transmitting the labels from the recognizer plug-ins to the recognizer dynamic-link library;

transmitting the labels to the application program module;

receiving the labels in the action dynamic link library;

transmitting the labels to a plurality of action plug-ins; and

determining, in the action plug-ins, a plurality of actions based on each of the labels and displaying a plurality of actions received from the plurality of action plug-ins.

28. (Cancelled)